State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

Department of
Environmental Quality

William J. Sinclair
Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0108430007-09

March 11, 2009

Mike Edwards
Geneva Rock Products, Inc.
1565 West 400 North
P.O. Box 538
Orem, UT 84057

Dear Mr. Edwards:

Re: Intent to Approve: Modification to Approval Order DAQE-544-98 by Increasing Production and Adding Equipment; Utah County; CDS B; MACT (Part 63), NSPS (Part 60), Nonattainment Area
Project Number: N010843-0007

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Mr. Alan Humpherys, who may be reached at (801) 536-4142.

Sincerely,

Ty L. Howard, Manager
New Source Review Section

TLH:AH:sa

cc: Utah County Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

INTENT TO APPROVE: Modification to Approval Order DAQE-544-98 by Increasing Production and Adding Equipment

Prepared By: Mr. Alan Humpherys, Engineer
Phone: (801) 536-4142
Email: ahumpherys@utah.gov

INTENT TO APPROVE NUMBER

DAQE-IN0108430007-09

Date: March 11, 2009

Pelican Point Limestone, Aggregate, & Concrete Facility

Source Contact:
Mr. Mike Edwards
Phone: (801) 281-7890

Ty L. Howard, Manager
New Source Review Section
Utah Division of Air Quality

ABSTRACT

Geneva Rock Products, Inc. (Geneva Rock) has requested a modification to their AO for the Pelican Point Limestone, Aggregate, and Concrete Facility. Two aggregate processing plants, an aggregate wash plant, and a concrete batch plant will be added to the facility. Three diesel engines/generators, a hot water heater, and several fuel storage tanks will be added as support equipment to the facility. The production at the facility will be increased from 1,250,000 tons of processed aggregate to 4,000,000 tons of processed aggregate with no more than 600,000 tons of that material being washed in the wash plant per year. The facility will also be allowed to produce up to 200,000 tons of bank-run material and 200,000 cubic yards of concrete per year. Production of the grinding plant will be decreased from 125,000 tons of ground limestone to 70,000 tons of ground limestone per year.

The facility is located in Utah County, which is a non-attainment area for PM_{10}. Because of the increase in emissions, Geneva Rock triggers the requirement to obtain PM_{10} emission offset credits on a 1.2 to 1 basis, as per UAC R307-403-5. PM_{10} emissions offsets of 204.27 tons were satisfied as required. In addition, potential emission rates of PM_{10} do exceed the Major Source threshold of 100 tons/year. Because a large portion of this site consists of fugitive emission sources, and this site is designated as an aggregate plant, Geneva Rock's Pelican Point pit shall be considered a Minor source (See R307-101-2 Definition of Major Source).

The potential to emit totals, in tons per year, will change as follows: PM_{10} + 142.51, NO_x + 26.20, SO_2 + 1.51, CO + 45.64, VOC - 0.05, HAPs + 0.064

The changes in emissions will result in the following, in tons per year, potential to emit totals: PM_{10} = 149.62, NO_x = 41.41, SO_2 = 2.87, CO = 52.63, VOC = 2.10, HAPs = 0.064

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in The Daily Herald on March 16, 2009. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Geneva Rock Products, Inc.
1565 West 400 North
P.O. Box 538
Orem, UT 84057

Permitted Location:

Geneva Rock Products, Inc.: Pelican Point
Limestone, Aggregate, & Concrete Facility
1565 Redwood Road
Lehi, UT 84043

UTM coordinates:425,920 m Easting, 4,456,650 m Northing
SIC code:3273 (Ready-Mixed Concrete)

Section I: GENERAL PROVISIONS

I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]

I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]

I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401]

I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]

I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

II.A.1 **Limestone, Aggregate, and Concrete Facility**

II.A.2 **One (1) Grizzly Feeder with Hammer**
Size: 72 Inches Wide

II.A.3 **Main Aggregate Processing Plant**
Rated Capacity: 1,500 Tons per hour
Includes One (1) Primary Screen, One (1) Primary Feed Bin, Three (3) Secondary Screens, Two (2) Tertiary Screens, One (1) Tertiary Crusher, Two (2) Secondary Crushers, One (1) Grizzly Feeder with Hammer, Two (2) Tunnel Feeders (System), Two (2) Aggregate Feeders, One (1) Feeder, Three (3) Aggregate Feeders, One (1) Primary Crusher, One (1) Secondary Feed Bin, Various Main Plant Conveyors

II.A.4 **One (1) Primary Crusher**
Rated Capacity: 1,500 tons per hour

II.A.5 **Two (2) Tunnel Feeders (System)**
Rated Capacity: 1,500 tons per hour each

II.A.6 **One (1) Primary Screen**
Size: 8' x 24'

II.A.7 **One (1) Primary Feed Bin**

II.A.8 **Three (3) Aggregate Feeders**
Size: 72 Inches Wide

II.A.9 **Three (3) Secondary Screens**
Size: 8' x 24' each

II.A.10 **One (1) Secondary Feed Bin**

II.A.11 **Two (2) Aggregate Feeders**
Size: 72 Inches Wide

II.A.12 **Two (2) Secondary Crushers**
Rated Capacity: 1,500 tons per hour each

II.A.13 **Two (2) Tertiary Screens**
Size: 8' x 24' each

II.A.14 **One (1) Feeder**
Size: 72 Inches Wide

II.A.15 **One (1) Tertiary Crusher**
Rated Capacity: 800 tons per hour

II.A.16 **Various Main Plant Conveyors**

II.A.17 **One (1) Grizzly Feeder with Hammer**
Size: 62 Inches Wide

II.A.18 **Second Aggregate Processing Plant**
Rated Capacity: 800 Tons per hour
Includes One (1) Primary Screen, One (1) Grizzly Feeder with Hammer, One (1) Primary Crusher, Various Second Plant Conveyors and Stackers

II.A.19 **One (1) Primary Crusher**
Rated Capacity: 800 tons per hour

II.A.20 **One (1) Primary Screen**
Size: 8' x 20'

II.A.21 **Various Second Plant Conveyors and Stackers**

II.A.22 **One (1) Grizzly Feeder with Hammer**
Size: 62 Inches Wide

II.A.23 **Third Aggregate Processing Plant**
Rated Capacity: 600 Tons per hour
Includes One (1) Primary Screen, Various Third Plant Conveyors, One (1) Grizzly Feeder with Hammer, One (1) Feeder, One (1) Primary Crusher, One (1) Feed Bin

II.A.24 **One (1) Primary Crusher**
Rated Capacity: 600 tons per hour

II.A.25 **One (1) Feed Bin**

II.A.26 **One (1) Feeder**
Size: 62 Inches Wide

II.A.27 **One (1) Primary Screen**
Size: 8' x 20'

II.A.28 **Various Third Plant Conveyors**

II.A.29 **One (1) Limestone Grinder**
Rated Capacity: 25 tons per hour
Control Device: Shaking Baghouse

II.A.30 **Limestone Grinding Mill**
Rated Capacity: 25 Tons per hour
Includes Two (2) Cyclones, One (1) Limestone Grinder, Two (2) Powdered Limestone Storage Silos, Various Grinding Mill Conveyors and Feed Bins

II.A.31 **Two (2) Cyclones**
Controls emissions from the Limestone Grinder

II.A.32 **Two (2) Powdered Limestone Storage Silos**
Control Device: Baghouse

II.A.33 **Various Grinding Mill Conveyors and Feed Bins**

II.A.34 **One (1) Wash Plant Feeder**
Size: 54 Inches Wide

II.A.35 **Aggregate Wash Plant**
Rated Capacity: 400 Tons per hour
Includes One (1) Wet Screen, One (1) Sand Screw, Various Wash Plant Conveyors, One (1) Wash Plant Feeder

II.A.36 **One (1) Wet Screen**
Size: 8' x 20'

II.A.37 **One (1) Sand Screw**
Size: 2' x 54'

II.A.38 **Various Wash Plant Conveyors**

II.A.39 **One (1) Truck-Mix Concrete Batch Plant**
Rated Capacity: 100 cubic yards per hour
Weigh Hopper Control Device: Baghouse

II.A.40 **Various Cement Storage Silos**
Control Device: Bin Vents

II.A.41 **Various Fly Ash Storage Silos**
Control Device: Bin Vents

II.A.42 **Various Aggregate Storage Bins**

II.A.43 **One (1) Hot Water Heater**
Size: 9.9 MMBTU per hour

II.A.44 **One (1) Crusher/Screen Generator/Engine**
Power: 900 hp
Fuel: Diesel Fuel

II.A.45 **One (1) Screen Generator/Engine**
Power: 174 hp
Fuel: Diesel Fuel

II.A.46 **One (1) Emergency Generator**
Power: 1,662 hp
Fuel: Diesel Fuel

II.A.47 **One (1) 500-Gallon Gasoline Storage Tank**

II.A.48 **One (1) 1,000-Gallon Diesel Storage Tank**

II.A.49 **One (1) 10,000-Gallon Diesel Storage Tank**

II.A.50 **Two (2) 12,000-Gallon Diesel Storage Tanks**

II.A.51 **One (1) 6,000-Gallon Diesel Storage Tank**

II.A.52 **Various Welding Equipment**
Welding Rods

II.B Requirements and Limitations

II.B.1 **The Limestone, Aggregate, and Concrete Facility shall be subject to the following**

II.B.1.a Geneva Rock shall notify the Executive Secretary in writing when the installation of the two aggregate processing plants, the aggregate wash plant, the concrete batch plant, the three diesel engines/generators, the hot water heater, the fuel storage tanks, and the associated support equipment has been completed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If the construction and/or installation has not been completed within 18 months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO. [R307-401-18]

II.B.1.b The owner/operator shall not produce more than 200,000 tons of bankrun material per rolling 12-month total. [R307-401]

II.B.1.b.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. All bank-run material shall be weighed and accounted for prior to leaving the Pelican Point Site. Amount of material produced shall be determined by scale house records. The records of production shall be kept on a daily basis. [R307-401]

II.B.1.c Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions from any source on site to exceed 20 percent opacity. [R307-305]

II.B.1.c.1 Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-305]

II.B.2 **All Bulldozing Operations on site shall be subject to the following**

II.B.2.a The hours of operation for all bulldozers at the facility shall not exceed 28,000 hours combined per rolling 12-month period. [R307-401]

II.B.2.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. The hours of operation of each bulldozer shall be added together to determine the total hours. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.3 **All Paved Haul Roads on site shall be subject to the following**

II.B.3.a The owner/operator shall pave the haul road from the site entrance to the grinding mill with concrete or asphalt. [R307-401]

II.B.3.b The owner/operator shall vacuum sweep and flush with water all the paved haul roads on site to maintain opacity limits listed in this AO. If the temperature is below freezing, the owner/operator shall continue to vacuum sweep the road but may stop flushing the paved haul roads with water. If the haul roads are covered with snow or ice, the owner/operator may stop vacuum sweeping the paved haul roads and flushing the paved haul roads with water. [R307-401]

II.B.3.b.1 Records of vacuum sweeping and water application shall be kept for all periods when the plant is in operation. The records shall include the following items:

A. Date and time treatments were made

B. Number of treatments made and quantity of water applied

C. Rainfall amount received, if any

D. Records of temperature, if the temperature is below freezing

E. Records shall note if the paved haul roads are covered with snow or ice. [R307-401]

II.B.4 **All Unpaved Haul Roads on site shall be subject to the following**

II.B.4.a The owner/operator shall cover all unpaved haul roads from the paved haul road to the concrete batch plant and the aggregate wash plant with road-base material. [R307-401]

II.B.4.b The owner/operator shall use water application on all unpaved haul roads and wheeled-vehicle operational areas on site. Water application shall be of sufficient frequency to maintain the opacity limits listed in this AO. If the temperature is below freezing, the owner/operator may stop applying water to the unpaved haul roads and wheeled-vehicle operational areas. [R307-401]

II.B.4.b.1 Records of water application shall be kept for all periods when the plant is in operation. The records shall include the following items:

A. Date and time treatments were made

B. Number of treatments made and quantity of water applied

C. Rainfall amount received, if any

D. Records of temperature, if the temperature is below freezing. [R307-401]

II.B.5 **All Drilling and Blasting Operations on site shall be subject to the following**

II.B.5.a The owner/operator shall install and use a shroud on all aggregate drills when drilling to control fugitive emissions. [R307-401]

II.B.5.b The owner/operator shall not blast more than 188 blasts per rolling 12-month period. [R307-401]

II.B.5.b.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Number of blasts shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.5.c The owner/operator shall not use more than 1,340 tons of explosives per rolling 12-month period. [R307-401]

II.B.5.d To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Amount of explosives used shall be determined by purchasing records or maintaining an operations log. [R307-401]

II.B.6 **All Haul Roads and Sources of Fugitive Dust on site shall be subject to the following**

II.B.6.a The owner/operator shall abide by a fugitive dust control plan acceptable to the Executive Secretary for control of all dust sources associated with the Pelican Point Limestone, Aggregate, and Concrete Batch Plant. The owner/operator shall submit a fugitive dust control plan to the Executive Secretary, attention: Compliance Section, for approval within 30 days of the date of this AO. [R307-309]

II.B.6.a.1 The fugitive dust control plan shall address the following specific control strategies:

Blasting Operations
1. Blasting during low wind events
2. Conducting blasting in a manner to prevent over-shoot
3. Maximize hole depth to decrease surface area affected by blasting

Bulldozing
1. Minimizing drop distance
2. Minimizing activities during extreme meteorological conditions (i.e. high wind events)
3. Adding moisture to control visible emissions

Storage Piles
1. Maintaining moisture in storage piles
2. Minimizing drop distance from conveyors to storage piles
3. Minimizing activities during windy meteorological conditions

Exposed Areas
1. Maintaining moisture in exposed areas
2. Other stabilization methods in exposed areas
3. Methods to ensure exposed areas are not re-disturbed by on-site equipment

Haul Roads
1. Minimizing the haul road length
2. Minimizing vehicle miles traveled on the haul roads
3. Regularly scheduled maintenance. [R307-401]

II.B.6.b The owner/operator shall not allow visible emissions from haul roads and fugitive dust sources to exceed 20 percent opacity on site and 10 percent at the property boundary. [R307-309]

II.B.6.b.1 Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-309]

II.B.6.c The owner/operator shall install water sprays on all conveyor drop points on site. The owner/operator shall apply water from conveyor sprays and water trucks to all storage piles on site to control fugitive emissions. Sprays shall operate as required to ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop spraying the storage piles with water if the temperature is below freezing. [R307-401]

II.B.6.d The owner/operator shall abide by all applicable requirements of R307-309 for Fugitive Emission and Fugitive Dust sources on site. [R307-309]

II.B.7 **The Main Aggregate Processing Plant shall be subject to the following**

II.B.7.a The main aggregate processing plant shall not produce more than 3,000,000 tons of aggregate and sand combined per rolling 12-month period. [R307-401]

II.B.7.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by belt scale records. The records of production shall be kept on a daily basis. [R307-401]

II.B.8 **The Second Aggregate Processing Plant shall be subject to the following**

II.B.8.a The second aggregate processing plant shall not produce more than 600,000 tons of aggregate and sand combined per rolling 12-month period. [R307-401]

II.B.8.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by belt scale records. The records of production shall be kept on a daily basis. [R307-401]

II.B.9 **The Third Aggregate Processing Plant shall be subject to the following**

II.B.9.a The third aggregate processing plant on site shall not produce more than 400,000 tons of aggregate and sand combined per rolling 12-month period. [R307-401]

II.B.9.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by belt scale records. The records of production shall be kept on a daily basis. [R307-401]

II.B.10 **The Limestone Grinding Mill shall be subject to the following**

II.B.10.a The limestone grinding mill shall not produce more than 70,000 tons of ground limestone per rolling 12-month period. [R307-401]

II.B.10.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by belt scale records. The records of production shall be kept on a daily basis. [R307-401]

II.B.10.b A manometer or magnehelic pressure gage shall be installed to measure the differential pressure across all of the grinding mill baghouses. Static pressure differential across the fabric filter shall be between one to six inches of water column. The pressure gage shall be located such that an inspector/operator can safely read the indicator at any time. The reading shall be accurate to within plus or minus 1.0 inches water column. The instrument shall be calibrated according to the manufacturer's instructions at least once every year. Continuous or intermittent recording of the reading is not required. [R307-401]

II.B.11 **The Aggregate Wash Plant shall be subject to the following**

II.B.11.a The aggregate washing and screening plant shall not process more than 600,000 tons of aggregate material per rolling 12-month period. [R307-401]

II.B.11.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of processing shall be kept for all periods when the plant is in operation. Amount of material processed shall be determined by belt scale records. The records of processing shall be kept on a daily basis. [R307-401]

II.B.11.b The owner/operator shall not allow any visible emissions from the wet screening operation or any conveyor on site that processes saturated material. [40 CFR 60 Subpart OOO]

II.B.12 **The Truck-Mix Concrete Batch Plant shall be subject to the following**

II.B.12.a The truck mix concrete batch plant shall not produce more than 200,000 cubic yards of concrete per rolling 12-month period. [R307-401]

II.B.12.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale house records. The records of production shall be kept on a daily basis. [R307-401]

II.B.12.b A manometer or magnehelic pressure gage shall be installed to measure the differential pressure across the concrete batch plant weigh hopper baghouse. Static pressure differential across the fabric filter shall be between one to six inches of water column. The pressure gage shall be located such that an inspector/operator can safely read the indicator at any time. The reading shall be accurate to within plus or minus 1.0 inches water column. The instrument shall be calibrated according to the manufacturer's instructions at least once every year. Continuous or intermittent recording of the reading is not required. [R307-401]

II.B.12.c The owner/operator shall install bin vents on all material storage silos associated with the concrete batch plant. Displaced air from the silos shall pass through the bin vents before being vented to the atmosphere. [R307-401]

II.B.12.d The owner/operator shall not allow visible emissions from any baghouse or bin vent associated with the concrete batch plant to exceed 10 percent opacity. [R307-401]

II.B.13 **The Hot Water Heater shall be subject to the following**

II.B.13.a The hot water heater shall not exceed 4,380 hours of operation per rolling 12-month period. [R307-401]

II.B.13.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.13.b The owner/operator shall use only natural gas or liquefied petroleum gas as fuel in the hot water heater. [R307-401]

II.B.13.c The owner/operator shall not allow visible emissions from the hot water heater to exceed 10 percent opacity. [R307-401]

II.B.14 **The 174 hp Screen Generator shall be subject to the following**

II.B.14.a The screen generator shall not exceed 2,400 hours of operation combined per rolling 12-month period. [R307-401]

II.B.14.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.15 **The 900 hp Crusher/Screen Generator and the 1,662 Emergency Generator shall be subject to the following**

II.B.15.a The crusher/screen generator and the emergency generator shall not exceed 1,508,460 hp-hr of operation combined per rolling 12-month period. [R307-401]

II.B.15.a.1 To determine compliance with the rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. To determine the total hp-hrs for the facility, the owner/operator shall multiply the horsepower of the engine and the hours of operation for that engine and add the total hp-hrs of all the engines together. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401]

II.B.16 **All Stationary Engines/Generators on site shall be subject to the following**

II.B.16.a The owner/operator shall not allow visible emissions from any stationary diesel engine on site to exceed 20 percent opacity. [R307-305]

II.B.16.b The owner/operator shall use #1, #2 or a combination of #1 and #2 diesel fuel in all stationary diesel engines on site. [R307-401]

II.B.16.c The sulfur content of any fuel oil or diesel burned in any stationary diesel engine on site shall not exceed 0.05 percent by weight. [R307-401]

II.B.16.c.1 The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of fuel oil or diesel fuel shall be either by the owner/operator's own testing or by test reports from the fuel oil or diesel fuel marketer. [R307-203]

II.B.16.d The owner/operator shall abide by all applicable provisions of 40 CFR 63, MACT Standards Subpart A (General Provisions), 63.1 to 63.16 and Subpart ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), 40 CFR 63.6580 to 63.6675 for all new, reconstructed, or existing (as defined in Subpart ZZZZ) stationary engines on site. [40 CFR 63 Subpart ZZZZ]

II.B.16.e The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines), 40 CFR 60.4200 to 60.4219 for all stationary diesel engines on site as specified in 40 CFR 60.4200(a). [40 CFR 60 Subpart IIII]

II.B.17 **All Crushers on site shall be subject to the following**

II.B.17.a The owner/operator shall not allow visible emissions from any crusher on site to exceed 15 percent opacity. [40 CFR 60 Subpart OOO]

II.B.17.b The owner/operator shall install water sprays on all crushers on site to control fugitive emissions. Sprays shall operate as required to ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop the water sprays if the temperature is below freezing. [R307-401]

II.B.18 **All Screens on site shall be subject to the following**

II.B.18.a The owner/operator shall not allow visible emissions from any screen on site to exceed 10 percent opacity. [40 CFR 60 Subpart OOO]

II.B.18.b The owner/operator shall install water sprays on all screens on site to control fugitive emissions. Sprays shall operate as required to ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop the water sprays if the temperature is below freezing. [R307-401]

II.B.19 **All Conveyors on site shall be subject to the following**

II.B.19.a The owner/operator shall not allow visible emissions from any conveyor transfer point on site to exceed 10 percent opacity. [40 CFR 60 Subpart OOO]

II.B.19.b The owner/operator shall not allow visible emissions from any conveyor drop point on site to exceed 20 percent opacity. [R307-309]

II.B.19.c The owner/operator shall install water sprays on all unenclosed conveyor transfer points on site to control fugitive emissions. Sprays shall operate as required to ensure the opacity limits listed in this AO are not exceeded. The owner/operator may stop the water sprays if the temperature is below freezing. [R307-401]

II.B.20 **All Bin Vents and Baghouses associated with the aggregate processing plants and the limestone grinding mill shall be subject to the following**

II.B.20.a The owner/operator shall not allow visible emissions from any baghouse or bin vent associated with the aggregate processing plants and the limestone grinding mill to exceed 7 percent opacity. [40 CFR 60 Subpart OOO]

II.B.20.b The owner/operator shall control emissions from the material storage silos on site by passing all displaced air from the storage silos through a baghouse or bin vent before being vented to the atmosphere. [R307-401]

II.B.21 **All Crushers, Grinding Mills, Screens, Conveyors, and Storage Bins on site shall be subject to the following**

II.B.21.a Initial visible observations of opacity shall be conducted for all crushers, grinding mills, screens, conveyor transfer points, and storage bin vents/stacks on site. Observations shall meet the opacity limitations listed in this AO. [40 CFR 60 Subpart OOO]

II.B.21.a.1 Initial visible emission observations of opacity shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. Initial visible emission observations shall consist of 30 observations of six minutes each in accordance with 40 CFR 60.11(b). The duration of observations may be reduced to comply with 40 CFR 60.675(c)(3) or 40 CFR 60.675(c)(4). A certified observer must be used for these observations. [40 CFR 60 Subpart OOO]

II.B.21.b The owner/operator shall abide by all applicable provisions of 40 CFR 60, NSPS Subpart A (General Provisions), 40 CFR 60.1 to 60.18 and Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants), 40 CFR 60.670 to 60.676 for all crushers, grinding mills, screens, conveyor transfer points, and storage bin vents/stacks on site. [40 CFR 60 Subpart OOO]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plants
MACT (Part 63), A: General Provisions
NSPS (Part 60), IIII: Stationary Comp/Ignit R.I.C.E
MACT (Part 63), ZZZZ: Recipro. Int. Comb Engine (RICE)
NSPS (Part 60), A: General Provisions

PERMIT HISTORY

The final AO will be based on the following documents:

Supersedes DAQE-544-98 dated August 26, 1998

ACRONYMS

The following lists commonly used acronyms and their associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
ATT	Attainment Area
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
MACT	Maximum Achievable Control Technology
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds